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application for assistance from CDF

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you 318. To consist and from COF for & 4000 representing hinty of the outmated copiese exposes on solution hand of a higha ague (1º to cifes. livel risal research station. apares to R.63. Sir. F. Strehdele My we have your news on this places? Do you what it? H. Mare 20,6 This proposed may be emphoral before the copie. as will be even from the opening prompty of the Memorandam it in diseased when I am in Kenya i 1937 and the caliblishment of a tight. end dilia praint much and my upport. The lines of work projected are all worthing of monthy alien a thing will and worken with the work being carried at at the trul level atition in Jangazika at Mingens J. A. Stindela DA là une evering mano. and let Sin Harphele re it It should come before

16. ( Ites at Item next two Sunday, no weeling and reach It. you were remember that at Dely Sec by 6 July the last least meeting an application from Kenya for a grant of £ 4,000 Utu towned, the capital expenditure on he U. J. Dane establishment of a high level research Comemo. station in the levlong was considered. = 60a6 2365 - 2 puly 38. The Committee recommended a four grant of f 4,000 and a letter in this sum the bear sum to her sent to the bo strong the first John Englason, one of the Ramoto for grant of 14 poor to meet half the cost of establishment of the station scheme is allotted revial number members of the CARE, her asker whicher there would be any objection to his mentioning this matter to a fruit of his who is witnessed in Sial maching. Do you see any objection! ( the understant, of course, that the bonumited recommendation repures covering Treasury

Premises to make no public amount sevent until auttonois.

The liter at 5 hats a different. contumor on in John Eaglesom require and thou can , to far the E. A. Dente an concurs. to no horion rijon to his moneron; the mater to a price once the it is has been min public. (2.) The ohun M. Down the Mr. ma he dividia litate any same to have on a

fin ( son har. lingue a you a Remove fit is has been me entroy).

many thoubs, wased you please let me know as soon as it can inform dis J. Englesome

that the matter has been made

I you will now sund the usual letter to the Treasing on (4)

To be Treasing - 12. 8. 38 800 THO STATUTE

> Talle, sanctions grant of It, 000, from bolonial . Development Fund.

> > Draft subrunted

Clorquille 23/8

Un Two aries would like this file Sent to him in red after the despatch has gone in order that son I Eaglesave may be informed when that the weeter have been made bubble. (See Shp above (8) on CAA'E file 705 below) Clarkquille 2018

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363 135 Mr. Coloquiale 23/8 31 August 1938 Mr. Sumide 23/8 I have etc to ask his verifi. Str H. Moore. R 23 AUG Sir G. Tomlinson. Sir C. Bottomley. (1) of your deep No 318 of the Sir J. Shuckburgh 100 g. Time Evensonithing an Permi. U.S. of S. Parly. U.S. of S. application for a grout for Secretary of State. the Colonial Development the Connex half the estimates capital expension with the Fund in connex con with the DRAFT. herry a. establishment of a high-No. 519. GW. level sizal research states I embre for your information - copy of his humanium subunting Les Co arrange stating adams your application to the Colonial Development Advisory Chies, logelin with Latin W.M. NOA Trees to 7 gletier fun hie Citie FURTHER ACTION. and for the Treasury versioners my gard a Record ! whenever is hart five grant ( ) + 4000 ) 6 the extension on the scal con in red your your God, 2 of a Def Kas lette fun the Treasury Assuer. Saulining Ous

WHITEHALL, LONDON, S.W.1 and the following number quoted :

S. 34609/0477.



### TREASURY CHAMBERS.

Sir.

I have laid before the Lords Commissioners of His Majesty/s Treasury Mr. Surridge's letter of the 18th instant (38393/38) signifying Mr. MacDonald's concurrence in the recommendation of the Colonial Development Advisory Committee, conveyed in the Secretary's letter of the 27th ultimo (C.D.A.C. 2380) that a free grant of £4,000 should be made from the Colonial Development Fund to the Government of Kenya representing half the estimated capital expenditure on the establishment of a high level sisal research station in the Colony. My Lords note that the balance of the capital cost will be contributed by the Sisal Industry Committee, who will also bear the whole of the annually recurrent expenditure on the station, assisted by such contributions as may be made by the Government of Kenya under the terms of the Sisal Industry Ordinance.

I am now to request you to inform the Secretary

of

of State that My Lords sanction the grant of £4,000 from the Coronial Development Fund in accordance with the recommendation of the Sommittee.

Copies of this letter have been sent to the Secretary of the Colonial Development Advisory Committee and to the Crown Agents for the Colonies.

I am,

Sir,

Your obedient Servant,

J.a.Barlow

Communications on this subject should be addressed to THE SECRETARY

Telephone: WHITEHALL 9191



COLONIAL DEVELOPMENT ADVISORY COMMITTEE, COLONIAL OFFICE, CAXTON HOUSE (East Block)

Tothill Street, s.W.L.

27th July, 1936.

C.D.A.C. 2380.

Sir.

0.0.11.01

I am directed by the Colonial myelocent

Advisory Committee to request you to inform

Mr. Secretary MacDonald that, at their 110th meeting.

on the 20th of July, they had before them an application
from the Government of Kenya (C.D. A.C. 2355) for a free
grant of 24,000 representing half the estimated capital
expenditure on the establishment of a high level sizal
research station in the Colony. The balance of the
capital cost will be contributed by the Bisal Industry
Committee, who will also bear the whole of the annually
recurrent expenditure on the station, assisted by such
contributions as may be made by the Government of Kenya
under the terms of the Sisal Industry Ordinance.

2. The Committee and the advantage of receiving evidence, during their discussion, from Sir Pron: Stockdale, K.C.E.G., C.B. 1., Agricultural adviser to the Secretary of State.

3.

THE UNDER SECRETARY OF STATE,

COLONIAL OFFICE.

COLUMN AS DEVELOPIEMY ASSESSED COMES

· collal expenditure on the constitution and a high part

sisal research station in the Colony.

A Colonial Office mendandan with the quant financial summary is attached

Assistant Secretary to the Com

experiments, if successful, will confer great benefits on the sisal industry in British East Africa. 4. The Committee recommend a free grant of

the introduction of new types of sisal fibre. These

ast of the low level research station of Mlingano in nyika relates mainly to crop experiments, whereas the investirations which it is proposed should b. undertaken in Kenya will have as their maih object the more complete utilisation of the sizal plant and

" 10 work which is at present being carried

- \$4,000 to meet one half of the capital cost of the establishment of the research station.
- The serial number allotted to this scheme is 516.
- A similar letter is being sent to the Treasury.

I an,

Sir,

Your obedient servant,

or Secretary to the Committee.

## FINANCIAL SUMMARY.

	1.	Dependency.		Kenya.		
	2.	Description of scheme.		High lev	vel stant r	₽e÷.
	3.	Date of commencement.	*	As acon	ar abilita.	2(1.
	4.	Period of scheme.		Three ye	ears.	
	5	Matal		ing.	A STATE OF THE STA	-
		Total gost.	4.	£8,000.		
	6.	Allocation of cost	1 1	Logal:	£4,600. £5,400.	in To
	7.	Assistance desired.		Free gra	nt of £4,0	00
		The state of the s				
	8.	Suggested terms of loan.		Not appl	icable.	
-		And the second s			1	
	9.	Probable yearly amounts required.	an	1938/39 1939/40 1940/41	£3,025 475 500	

### MEMORANDUM.

The Governor of Kenya has submitted proposals for the establishment of a high level sixal research station in the Colony, where an attempt will be made to produce new types of Tibre ruitable for trades not at present using sixal Tibres.

It is proposed that such it the recearch station will be directed first to the recovery or the total fibre content of the sisal Jeaf by a process of crushing between rollers followed by cleaning in an accelerated ret; second, to the production of a clean soft tow suitable for the weaving of Fabrics of the canvas type from the ribre of sucer plants which are at present a waste product of sisal cultivation; third, to the more complete utilization of the sisal plant, particularly of the coarse resilient fibre in the bole.

Those investigations, which if successful may lead to considerable modifications in the methods of fibre production and confer great benefits an the industry in British East Africa, were discussed with the Sisal Industry Committee in Kenya last year by Sir Frank Stockdale, who has expressed agreement with the proposals. In his opinion, the subjects covered by the projected lines of research merit investigation, and will not overlap with the work at present being carried out at the low level sisal research station at Mingane in Tanganyika. (C.D.A.C. 2262).

A despatch from the Governor of Kenya, together with an explanatory memorandum and a note on final

sisal research by the Senior Agricultural Chemist of Kenya, is attached. It will be observed that the estimated capital cost of the scheme is £8,000 and that the Governor is anxious to secure assistance from the Fund to the extent of one half of the total cost, i.e. a free grant of £4,000. The Sisal Industry Committee has agreed to contribute the balance of the capital cost, and will bear the whole of the annual recurrent expenditure on the station, including maintenance of buildings, assisted by such contributions as may be made by Government annually under the terms of the Sisal Industry Ordinance.

The Secretary of State desires to support the Covernor's application, which he trusts the Committee may find it possible to great.

Colonia Office,

2nd July, 1938

KENYA. No.318. Government House,

Kenya.

10th June, 1938.

Sir,

I have the honour to transmit to you, for your consideration, an application for a grant from the Colonial Development Fund of £4,000, representing half the estimated capital expenditure on the establishment of a high-level disal research station in Kenya. The application is contained in the accompanying completed questionnaire and explanatory memorahdum.

C.D.A.C. 2088 2090 2199 2214 2. This project has no relation to previous schemes for which assistance has been granted from the Colonial Development Fund in connection with sisal experiments, and I trust that it may be submitted to the Colonial Development Advisory Committee with your recommendation.

I have, etc.

(Sgd.) R. BROOKE-POPHAM

AIR CHIEF MARSHAL GOVERNOR.

THE RIGHT HONOURABLE

MALCOLM MACDONALD, M.P.,

SECRETARY OF STATE FOR THE COLONIES,

DOWNING STREET,

LONDON, S.W.1.

Mr. MacDougall. 186.
Mr. Paskin 186.
Sir F. Stockdals 19/6 19/4
Mr. Dawe. 20.6 Utme

## MEMORANDUM.

The Governor of Kenya has submitted proposals for the establishment of a high level sisal research station in the Colony, where an attempt will be made to produce new types of fibre suitable for trades not at present using sisal fibres.

It is proposed that work at the research station will be directed first to the recovery of the total fibre content of the sisal leaf by a process of crushing between rollers followed by cleaning in an accelerated ret; second to the production of a clean soft tow suitable for the weaving of fabrics of the canvas type from the fibre of sucker plants which are at present a waste product of sisal cultivation: third to the more complete utilization of the sisal plant, particularly of a coarse resilient fibre in the bole.

These investigations, which if successful will revolution and methods of fibre production and confer great benefits on the industry in British East Africa, were discussed with the Sisal Industry Committee in Kenya last year by Bir Frank Stockdale, who has expressed agreement with the proposals. In his opinion the subjects covered by the projected lines of research merit investigation, and they will not overlap with the at beauty work being carried out at the low level research station at Mlingano in Tanganyika. (Cana 2262)

Fr. Kenya ho 318 of June 10



A despatch from the Governor of Kenya, together with an explanatory memorandum and a note on sisal research by the Senior Agricultural Chemist of Kenya, is attached. It will be observed that the estimated capital cost of the scheme is £8,000 and that the Governor is anxious to secure assistance from the Fund to the extent of one half of the total cost, i.e. a free grant of £4,000. Sisal Industry Committee has agreed to contribute the balance of the capital cost, and will bear the whole of the annual recurrent expenditure on the station, including maintenance of buildings, assisted by such contributions as may be made by Government annually under the terms of the Sisal Industry Ordinance.

The Secretary of State desires to support the Governor's application, which he trusts the Committee may find it possible to grant.

Colonial Office.

2 July 1938.

### FINANCIAL SUMMARY.

1. Dependency.

Kenya.

2. Description of scheme.

High level sisul useanh station

6. <u>bate or</u>

And the transfer of the

Feriod of scheme.

Three years

o. Total cost.

2.8.000

6. Allocation of cost.

U.R. E. 3, 400

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wood com

7. Assistance desired.

Free grant of £. H, 900.

 Suggested terms of loan.

not applicable.

9. Frobable yearly amounts required.

1938/39 1939/40 6. 0.050

3,025

1940/41 S. J.

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Xi t appliet the ways tool a specie

of application to being mode to a food of the neglect poet within which the connishood by retain, up a few teach of recognition and whether application is not a few a long free interest for any period.

In the absence of special considered one to the contrary the rate of interest usually recommended at present on I am from the Colonial Development Fund to Sym, and the action of repayment that of equated annual instalments occurring principal and interest.

in suctions. Assuming that the otherwise more on the date river in suction 3 state the eatimater aims while will be eating from the Fund during on a financial year factor of the aims during the currency of the many

No. 3/8



GOVERNMENT HOUSE NATROBI KENYA

10 June, 1938.

Sir,

I have the honour to transmit to you, for your consideration, an application for a grant from the Colonial Development Fund of £4,000, representing half the estimated capitæl expenditure on the establishment of a high-level sisal research station in Kenya. The application is contained in the accompanying completed questionnaire and explanatory memorandum.

60MC 2090
60MC 2214
60MC 2199

2. This project has no relation to previous schemes for which assistance has been granted from the Colonial Development Fund in connection with sisal experiments, and I trust that it may be submitted to the Colonial Development Advisory Committee with your recommendation.

I have the honour to be,
Sir,
Your most obedient,
humble servant,

ooke- Poplan

AIR CHIEF MARSHAL

THE RIGHT HONOURABLE
MALCOLM MACDONALD, M.P.,
SECRETARY OF STATE FOR THE COLONIES,
DOWNING STREET,
LONDON. S.W. 1.

## FORM OF APPLICATION FOR ASLISTANCE

#### from

## THE COLONIAL DEVELOPMENT FIND.

## HIGH-LEVEL SISAL RESEARCH STATION.

- (1) Kenya.
- (1) The establishment of an experiment station for sisal at the higher altitudes.
- (3) Immediately.
- (4' Three years.
- (5)(a) Expenditure to be incurred in first year.....26,050.

" second " .... 950

third " ..... 1,000

£8,000

- (b) Detailed estimates have been prepared on technical advice.
- (6)(a) Local Expenditure: £4,600
  - (b) Expenditure in the United Kingdom;

Direct (including freight & insurance) £1,225

Indirect (material manufactured in United Kingdom and purchased locally) 2,175.

£3,400

- (7) Lack of funds.
- (3) Half the capital cost of the station will be mot from the accumulated funds of the Kenya Sisal Industry, and assistance from the Colonial Development Fund is sought in respect of the remaining half of the capital cost.
- (9) Memorandum attached.
- (10) A free grant of 24,000.

For some years the establishment of an experiment station for sisal at the higher altitudes has been under consideration. The project was discussed with the Sisal Industry Committee in 1937 by Bir Frank Stockdale, who stated (at page 76 of his Perort on his visit to East Africa) that there is every reason to believe that a small experiment station on the lines of that established at Ming no in Tanganyika would be of great value to the denya sisal industry. A new factor which has increased the importance of the scheme trises out of the investigations carried out during the last year into the problem of the reclamation of flume waste tow. Between 20% and 30% of the total fibre content of sigal leaves is wasted in the course of the normal method of decortication. It has been possible by mechanical means to remover this waste tow, but manufacturers have hitherto been prejudiced against the tow on account of an irritating dust; the recent investigations have led to a suggessful system of retting which produces a greatly improved tow. method has been applied to other sisal products with encouraging results, and preliminary laboratory investi? gotions indicate that the retted fibre is softer than normal fibre, is less liable to deteriorate by exidation and so is more durable.

The first line of research will be the recovery of the total fibre centent of the sist load by a process of crushing between rollers fellowed by cleaning in an occulerated ret. The receivery of all the fibre of the leaf in an improved form will be of great value to the sist industry in East Africa. It is also probable that the process will be applicable to the recovery of other classes of fibre.

One of the weste products of sisal cultivation to

parent plants. These suckers contain a fine strong fibre, which normal decorticating machines cannot recover. Some years ago an attempt was made to produce sucker tow but this failed because of the difficulty of removing adherent tissue. Preliminary investigations recently have shown that it is possible to produce a clean soft tow which will be suitable for the weaving of fabrics of the canvas type.

The third line of investigation will lie in the more complete utilisation of the sisal plant. The bole contains a coarse, resilient fibre which would probably be suitable for uphelstery, reinforcement of plastice, and the manufacture of certain classes of brushes.

These investigations will call for a well equipped workshop where the experimental machinery can be constructed and erected.

If these investigations are successful, it is highly probable that the agranomic side of sisal fibre production will be profoundly affected in the direction, electry, of earlier cutting, encouragement of sucker growth and recovery of bulbil and sucker fibre after approximately one year. For this reason agronomic experiments will not be laid down before 1940.

The proposed lines of research, if successful, will completely revolutionise the methods of fibre production and possibly of sisal cultivation. New types of fibre will be produced suitable for trades not at present using sisal fibres. It is estimated that the total annual benefit to the industry in British East Africa will be in the neighbourhood of £1,500,000.

2. Detailed estimates of the proposed capital ex-

#### Buildings.

	900 800	
Office, laboratory & store. Factory and workshop	600 400 450 150	3,150
Land. Clearing, development (roads, anti-erosion measures, cover crops), planting 100 acres		650
Water Supply. Oil Engine, pump, piping, clearing tanks and reservoir		750
Electric power installation.		5 50
Scientific and office equipment	250 375 200	
	800 275	
	Market Science	

These estimates have been prepared by the Joint Standin, Committee on Sisal Research, consisting of officers of the Department of Agriculture and certain sisal producer members of the Committee of the Kenya Sisal Growers'

£8,000

3. The funds of the Sisal Industry Committee do not permit it to undertake the full capital expenditure involved. It is estimated that a reserve approximating to £5,000 will be in the hands of the Committee at the end of 1938, of which it is proposed that the sum of £4,000 should be contributed towards the capital cost of the station, the balance being maintained as a reserve for the development of sisal research.

The Gisal Industry Committee has agreed to be r
the whole of the annual recurrent expenditure on the station
including maintenance of buildings, assisted by such
contributions as may be made by Government annually under

the terms of the Sisal Industry Ordinance.

- 4. The Station, for which a suitable site has been selected on Crown land in the Thika district, would be owned by Government and staffed by the Department of Agriculture, the Government being reimbursed by the Sisal Industry Committee to the extent of the whole of the recurrent expenditure.
- A note by the Senior Agricultural Chemist is attached.

# SISAN RESEARCH

The proposal for sisal research the higher clevations in East Africa was concurrent with that for fosoerch at the lower. The latter has received its Sisal Research Station (in Tan convilga) and the Sisal Industry Constitute of Kenya, applicated ander the Sistl Industry Ordinance, now clien the time his come to word list a high I yet be care estation in this Colony. we say remained remainsh we have proceeding in Kenya for some little time and the control derive of the Senior Agricultural Chomist of the Agricultural Depositment, with a technical assistant conloyed by the Sisal Industry Consittee, Gov renort his provided an extra sur-of \$500 in the 1938 Estimates as a contribution towards the initiation of field to said Recognity the Feint Standing Committee on Sicol R . . . ch was established, consisting of officers of the agricultured Department ris on this six I pure reset are monthly of the Committee of the Karya Sical Grane of Armedialist, and a complete programme of grammic admission remode investigation has hear propored on a conditional. A suit do sito, en Crew. Lend. for a significant still soluted in the shill ris god Governant law of the challengers. of this land for research jurgosup.

2. . Sur-Ce all of the Research Condition was appointed to proper and in the color of considering the estimates the properties of work was lineased and the following conductions errived at :-

(i).....

- (i) It is advisable to proce d with the establishment of the research station i edict by.
- (ii) In view of the inteligible importance of the programs of act-optenomic work, the egronomic work should be postponed in order that all subgries my be devoted to the non-agreeous programs, but id down on the station in 1940.
- (iii) It is desirable that an essistant be appointed in 1942;
- (iv) In order to accure no timuity of the work it is desirable that the efficient in the energy of the strain and directly conducting the experiments should be a member of the Government service.

The reason for these recommendations lies mainly in the non-agronomic programs. The success of the retting research on ilms tow has opened a new visite of work. In the present methods of iscertication, later a 20 and 30 of the fibre in the left is lost. It appears possible to recover all the fibre and te close if by a single recors of rathing. There are reversal alvanta as is this process. The cost of accreticate aboth as a constant panel recovery, it is cost in the panel. The fibre panel of retting is soften as the reason. The termination is soften as the second of the fibre panel of the retting research will be secured from a neighbouring estate.

of sucker tem, a very much finer fibre which will be suitable for a different trace. It is possible to produce a perfectly clear tem by retting. The same unchinary as is evolved for the line fibre production will be suitable for this. Suckers, instance of being a liability, will become desirable to energy a cream growth. Lether useful fibre is that arrived from young bulbil plants a year old.

These developments, if successful, besides altering factory practice, will profoundly affect field practice. The Sub-Confittee therefore recommended the postponement of the renominant organic. In the meanting the land on the statics will be prepared for planting in 1940 according to the a renomic argument to be decided upon.

V. A DECILEY.

SECTION .. RICULTURAL CHEMIST.

/HMM.